

Title (en)

PROCESSES UTILISING SELECTIVELY PERMEABLE MEMBRANES

Title (de)

VERFAHREN ZUR VERWENDUNG VON SELEKTIV DURCHLÄSSIGEN MEMBRANEN

Title (fr)

PROCÉDÉS UTILISANT DES MEMBRANES SÉLECTIVEMENT PERMÉABLES

Publication

EP 3033304 B1 20201209 (EN)

Application

EP 14836623 A 20140814

Priority

- AU 2013903065 A 20130814
- AU 2014000809 W 20140814

Abstract (en)

[origin: WO2015021501A1] The present invention relates to processes utilising hydrogen species selectively permeable membranes for synthesis of products. The present invention also relates to processes for synthesising products from hydrogen insertion or hydrogenation reactions utilising hydrogen species permeable membranes. The present invention also relates to processes for synthesising ammonia utilising hydrogen species selectively permeable membranes. The membranes provide surfaced modified membranes that can comprise a porous layer containing a plurality of reactive sites comprising a metal species and a catalyst for promoting a reaction within the layer.

IPC 8 full level

C01C 1/04 (2006.01); **B01D 69/02** (2006.01); **B01D 71/02** (2006.01)

CPC (source: EP KR US)

B01D 53/228 (2013.01 - EP KR US); **B01D 67/0072** (2013.01 - EP KR US); **B01D 67/0088** (2013.01 - EP KR US); **B01D 69/02** (2013.01 - EP KR US); **B01D 69/145** (2013.01 - EP KR US); **B01D 71/02231** (2022.08 - EP KR US); **B01D 71/024** (2013.01 - EP KR US); **B01J 19/2475** (2013.01 - EP KR US); **B01J 23/8906** (2013.01 - KR US); **B01J 35/59** (2024.01 - KR US); **C01C 1/0411** (2013.01 - EP KR US); **B01D 2325/06** (2013.01 - EP KR US); **B01D 2325/10** (2013.01 - KR US); **B01J 2219/00162** (2013.01 - KR US); **B01J 2219/24** (2013.01 - KR US); **Y02P 20/52** (2015.11 - EP KR US)

Cited by

WO2022058576A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2015021501 A1 20150219; AU 2014306355 A1 20160225; AU 2014306355 B2 20180329; CA 2920507 A1 20150219; CA 2920507 C 20210713; CN 105579399 A 20160511; CN 105579399 B 20180612; EP 3033304 A1 20160622; EP 3033304 A4 20170315; EP 3033304 B1 20201209; JP 2016533882 A 20161104; JP 6534388 B2 20190626; KR 102301134 B1 20210913; KR 20160065086 A 20160608; US 2016193564 A1 20160707; US 9895652 B2 20180220

DOCDB simple family (application)

AU 2014000809 W 20140814; AU 2014306355 A 20140814; CA 2920507 A 20140814; CN 201480052903 A 20140814; EP 14836623 A 20140814; JP 2016533751 A 20140814; KR 20167006271 A 20140814; US 201414911632 A 20140814